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Look forward to speaking to you.

David Kanowitz
Oleg Flakovsky



Dear Mr. King, Ms. Hoffman:

19. This is my letter to you about my invention. The responses that I received from Ms. Collon (NYA 6000), Mr. Sifontes (NYA 5000) and Mr. November (SCORS) were not what I had hoped for but I am ready to take all the blame for this. I feel that some of the people who are helping me with my invention are not being honest with me. I am not saying that all of my associates in writing this letter. I assume there were some ambiguities in the description of my innovation. I guess this is why it seems like I am not being honest. Sifontes believes that the innovation I am describing is a bridge.

In reality, my innovation is a technology which will streamline the process of designing and producing metal shapes used in many industries. Since one of the main components of the proposed technology is the analytical optimization method, it will be called **OWSEM** (pronounced "awesome") - **O**ptimal **W**eight **S**tructural **E**lement **M**ethod.

The reason I was thinking about naming my future company "STONEBRIDGE DESIGN" is because my last name "Kucheronchik" is a Russian word for "coming from the Stone Bridge" and I wanted to use this name to honor the memory of my father (a Lead Designer for Gagarin/Korolyov - the founder and the head of the Soviet Space Program) and my mother (a Soviet Scientist in the field of Aviation).

I was a U.S. citizen and hold an M.S. Degree in Mechanical Engineering and a Ph.D. in Aviation Structural Design and Engineering. I worked in both the aircraft and civil engineering design fields in the USSR for 20 years. I was a Lead Designer in the hydraulic design field and a Senior Researcher in V.A. Kucheronko's State Research Institute of Aircraft Structures (a military aerospace agency).

I am certain that it will be worth your time to read these pages constituting a basic introduction to my innovation. If you or any of your associates would like further details, I will be happy to provide them either via electronic or regular mail, phone or, ideally, in person.

An Introduction to the Application of OWSEM and Its Benefits

The innovation that I am describing, QWSEEM (part of which is U.S. patent pending 10/913,616, Pub. No. US 2005/0016117, PCT/US00/00494) relates to metal shapes of different standard configurations (profiles) that are extruded or rolled from aluminum, steel and other alloys in immense volumes all over the world by multi-billion dollar manufacturing plants. These shapes are used in a wide variety of applications, including, but not limited to, construction, transportation, naval ship building, automotive and other fields.

OWSEM is the method of optimizing the design of these shapes' cross-sectional dimensions and, when implemented, will allow for the production of shapes at a more efficient, reduced weight while still retaining the same durability and structural integrity under the specified loads. Instead of being forced to choose shapes from the manufacturer's product catalog, they are enabling the user to specify the exact dimensions they now be able to produce. This will allow for the optimization of the shapes' dimensions for the shapes' producers to more accurately utilize.

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Overseas awards for the designing and building of speedships, airplanes, naval ships, automobiles, etc., at the minimum weight which brings the capability of carrying additional loads and/or providing superior luxury and/or providing a tremendous increase in fuel efficiency (once again, saving energy and reducing the negative effects of pollution) are given to the designers of the speedships. The speedships are designed to travel the same area to lift it, additional thrust to overcome the associated incremental drag and additional fuel to travel the same distance. As a result, the speedships are designed to travel the same distance in a shorter time period, ending up with the aircraft's gross weight increased from 2 to 3 times the original weight and the payload weight that began the initial cycle. The same "vicious circle" exists in the design and exploitation of speedships.

where the value of QW_{BEM} will be even more significant, in construction, QW_{BEM} both minimizes the dead load of the structure and increases reliability, allowing for the erecting of taller buildings and more efficient bridges with the ability to build them where the ground can not support the extra weight.

It does not seem like much...an exaggeration to think that my innovation, when implemented (and it is ready for implementation NOW), will bring to the U.S. and world economies BILLIONS OF DOLLARS in savings and productivity gains over what would have otherwise been achieved by continuing with conventional extrusion processes or changes in infrastructure of any industry involved. All that is necessary is ADDITIONAL OWNERSHIP, investment, training, marketing and production facilities. The technology is simple and can be easily adjusted to roll or extrude shapes in accordance with the customers' building requirements.

Sincerely,
Gordon E. Lusk

Examples of Successful Implementations

Examples of successful implementations

In the USSR, I have had successful implementations of an early version of my innovation that validate my statements:

I was involved in designing the IL-86 airliner by Ilyushin Aviation Complex, where, as a young SS/MS graduate of State University of Aeronautical Engineering (MADI), I acquired extensive knowledge and experience in every stage of aircraft design through my work in different design departments (weight, aerodynamics, structural, etc.). I was also involved in the design of the IL-86, a two-engine aircraft and the IL-86M, a four-engine aircraft, which were developed using the *Unigro* universal analytical method in structural design. This method returns the results of calculations to the designer in the form of a single general used in my method to compute the weight and structural parameters of the Soviet and foreign aircraft, where I first used it in the design of the IL-86. The IL-86M is a four-engine aircraft, which was designed for the first time in the USSR. It is a four-engine, long-range, wide-body airliner. The first part of the design of the IL-86M, including the aerodynamic loads, was completed in 1980. Despite a significant increase in aerodynamic loads, my optimization method allowed me to incorporate a change in the tail section of the IL-86M, which was a new aircraft, without the need for a structural change to the tail section has been implemented for any modification of this aircraft.

The State Central Research Institute for Building Structures (SNiISK) was the supreme design and construction organization in the USSR. It was the SNiISK that developed the standards for the design and construction of reinforced concrete structures. I was involved in the development of these standards and helped develop new standards for steel structures. Using my technology, I formed standards for designing reinforced concrete structures for the construction of buildings and structures. I also helped develop standards for the construction industry. These new standards provided a decrease of the double-T-shaped structural components of reinforced concrete structures. The standards for the design and construction of reinforced concrete structures for the USSR construction industry (Government Registration Number 154-80) were developed by me.

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